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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,771 07		7/14/2003	Chiang Pu	42P16565	8770	
59796	7590	09/25/2006		EXAMINER		
INTEL COR			MAI, TAN V			
c/o INTELLEVATE, LLC P.O. BOX 52050				ART UNIT	PAPER NUMBER	
MINNEAPO	LIS, MN	55402	2193			

DATE MAILED: 09/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/619,771	PU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tan V. Mai	2193	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed CHS from the mailing date of this ANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 14 O 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.		ne merits is
Disposition of Claims			
4) ☐ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to be drawing(s) be held in abeyand it in a beyond in a b	ce. See 37 CFR 1.85(a). s) is objected to. See 37 (, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	oplication No received in this Nationa	ıl Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	ımmary (PTO-413) /Mail Date	FO 452)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/14/03.	6) Other:	formal Patent Application (PT 	O-152)

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1. The abstract of the disclosure is objected to because abstract should include the technical disclosure of the invention as claimed. Correction is required. See MPEP § 608.01(b).

- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-8 and 10-11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Nelson.

Nelson, e.g., see Figs. 3, 5-8, teaches the claimed combination elements. Fig. 5 shows "bias current source" (10), multipliers (65-68), summer (90) and shifter (75) [for providing the claimed "multi bit control signal"]. Fig. 8A shows the detail of multiplier (65) which receives the current sources (400).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 9 and 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson.

Nelson has been discussed in the previous paragraph.

As per dependent claims 4 and 9, the claim adds the "current-to-voltage converter to convert current from the summer into a voltage". The feature is old and well known in the audio art.). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to apply the converter in Nelson, thereby making the claimed invention, because the proposed device is an analog filter having the converter feature as claimed.

As per claims 12-17, the claim adds the "digital signal source" and "analog signal receiver". These features are old and well known in the art. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to Nelson's analog filter in a system "digital signal source" and "analog signal receiver" as claimed.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references are art of interest.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner